

## CLAIMS

I claim:

1. A bulk bag unloader comprising  
an adjustable frame constructed without cross bracing,  
a bottom frame secured to the adjustable frame,  
a ram base removably secured to the bottom frame,  
a bag tray adapted to support a bulk bag removably secured to the ram  
base,  
a top frame secured to the adjustable frame,  
an I-beam secured to the top frame, said I-beam being substantially the  
same length as the adjustable frame is wide,  
a trolley adapted to traverse the I-beam, and  
a hoist secured to the trolley.
2. The unloader of claim 1, further comprising a seat mounted to the  
unloader.
3. A bulk bag unloader comprising  
at least one horizontal frame support,  
unloader frame brackets secured to the frame supports, and  
a bag support hopper supported by the unloader brackets.
4. The unloader of claim 3, said hopper comprising hopper brackets  
adapted to support the hopper by the unloader frame brackets.
5. The unloader of claim 4, further comprising at least one spacer  
disposed the hopper brackets and unloader frame brackets.
6. The unloader of claim 4, further comprising at least one load cell  
disposed the hopper brackets and unloader frame brackets.
7. The unloader of claim 4, further comprising at least one vibration isolator

disposed the hopper brackets and unloader frame brackets.

8. The unloader of claim 7, further comprising a vibration flange secured to the hopper.

9. The unloader of claim 3, further comprising a hopper flange ring secured to said hopper.

10. The unloader of claim 9, further comprising a discharge device plate secured to said hopper flange ring.

11. The unloader of claim 10, further comprising a discharge device removably secured to said discharge device plate.

12. The unloader of claim 11, wherein said discharge device is one taken from the group comprising a valve, surge hopper, filter, and conveyor.

13. The unloader of claim 3, further comprising a swiveled seat mounted to an unloader adjustable frame.

14. A bulk bag unloader comprising  
at least one horizontal frame support,  
a plurality of unloader frame brackets secured to the frame supports,  
a bag support hopper supported by the unloader brackets, and  
a seat mounted to the unloader.

15. A bulk bag unloader comprising  
a frame adapted to support a loaded bulk bag, the frame defining a  
boundary between inside of the frame and outside of the frame; and  
an I-beam for supporting the loaded bulk bag, the I-beam secured to the  
top of the frame and being completely contained inside of the frame.

16. The unloader of claim 15, further comprising a bag tray adapted to support a bulk bag and secured in a spaced, off-center relationship to the frame.
17. The unloader of claim 16, wherein the frame is sized such that the vertical centers of gravity of two horizontally adjacent bulk bags can be inside the frame.
18. A bulk bag unloader comprising  
a frame adapted to support a loaded bulk bag, the frame defining a boundary between inside of the frame and outside of the frame; and  
an I-beam for supported the loaded bulk bag secured to the top frame, the unloader suitably adapted to support a second bulk bag such that at least a portion of the second bulk bag can be inside the frame.
19. A bulk bag unloader comprising a bag support hopper, the hopper comprising  
a horizontal mounting base,  
a plurality of hinge plates hingedly secured to the mounting base, and  
a plurality of top plates hingedly secured to the mounting base or the hinge plates.
20. The unloader of claim 19, further comprising a plurality of bottom actuators disposed between the mounting base and the hinge plates, adapted to increase the angle of the hinge plates relative to the mounting base when the bottom actuators are inflated.
21. The unloader of claim 20, further comprising a plurality of top actuators disposed between the hinge plates and the top plates, adapted to increase the angle of the top plates relative to the hinge plates when the top actuators are inflated.
22. The unloader of claim 21 wherein the hinge plates, top plates, and

mounting base form a rigid hopper for the bag when the top actuators and bottom actuators are inflated.

23. The unloader of claim 19, further comprising a flexible cover secured from around the outside perimeter of the mounting base to the top plates, adapted to protect operators from moving parts of the unloader.

24. A bulk bag unloader comprising a seat adapted to assist an operator in unloading a bulk bag while on a bulk bag unloader.